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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/965,615	09/27/2001	Masakazu Hirano	09412.65876 7774	
75	90 02/07/2005		EXAM	INER
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Suite 2500			ART UNIT	PAPER NUMBER
300 South Wacker Dr.			2651	
Chicago, IL 60606			DATE MAIL ED. 02/07/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/965,615	HIRANO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Daniell L. Negrón	2651				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status	•					
1) Responsive to communication(s) filed on 11 Ja	nuary 2005.					
2a) This action is <b>FINAL</b> . 2b) ⊠ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1,2,5,7-12,15 and 17-21</u> is/are pendin	g in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,5,7-12,15 and 17-21</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>22 November 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) △ Acknowledgment is made of a claim for foreign</li> <li>a) △ All b) ☐ Some * c) ☐ None of:</li> <li>1. △ Certified copies of the priority documents</li> <li>2. ☐ Certified copies of the priority documents</li> </ul>	s have been received.					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	(PCT Rule 17.2(a)).	·				
* See the attached detailed Office action for a list	of the certified copies not receive	<b>d.</b> .				
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ul>		atent Application (PTO-152)				

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 9-12, 20, and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Uchiike et al U.S. Patent No. 6,236,527.

Regarding claim 11, Uchiike et al disclose a storage apparatus comprising a load/unload mechanism, configured to carry out a ramp load/unload operation to load/unload a head (4) which is provided on an arm (3) with respect to a recording medium (1) by a driving part e.g. voice coil motor (5), which drives the arm (See Fig. 4 and column 3, lines 41-63).

Uchiike et al further disclose a storage apparatus comprising a controller e.g. CPU (10) configured to control a driving current which is supplied to the driving part so as to undergo a gradual change during at least one of a load operation for a head feed operation which feeds the head toward the recording medium, and an unload operation as the unload operation is completed (see Fig. 4 and Response to Arguments for details).

Uchiike et al further disclose a storage apparatus wherein the arm is released from contact with a wall (6d) in a parking area by the head feed (i.e. load) operation, and the arm is pushed against the wall (6d) in the parking area as the unload operation is completed (see Fig. 2(b) and

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Response to Arguments for details).

Regarding claim 1, method claim 1 is drawn to the method of using the corresponding apparatus claimed in claim 11. Therefore method claim 1 corresponds to apparatus claim 11 and is rejected for the same reasons of anticipation as used above.

Regarding claims 2, 9, 10, 12, 20, and 21, claims 1, 2, 9, 10, 12, 20, and 21 are rejected for the same reasons discussed in the Office action mailed on December 5, 2003, paper no. 4 (see Response to Arguments).

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 5, 15, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchike et al U.S. Patent No. 6,236,527 in view of Huang et al U.S. Patent No. 6,583,964.

Regarding claims 5, 15, and 17, claims 5, 15, and 17 are rejected for the same reasons discussed in the Office action mailed on December 5, 2003, paper no. 4 (see Response to Arguments).

4. Claims 7 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchiike et al U.S. Patent No. 6,236,527 in view of Phan et al U.S. Patent No. 5,760,992.

Regarding claims 7 and 18, claim 7 and 18 are rejected for the same reasons discussed in the Office action mailed on December 5, 2003, paper no. 4 (see Response to Arguments).

5. Claims 8 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchiike et al U.S. Patent No. 6,236,527 in view of Koizumi et al U.S. Patent No. 5,982,570.

Regarding claims 8 and 19, claim 8 and 19 are rejected for the same reasons discussed in the Office action mailed on December 5, 2003, paper no. 4 (see Response to Arguments).

### Response to Arguments

6. Applicant's arguments filed November 22, 2004 have been fully considered but they are not persuasive.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., a gradual change in the voice coil motor current when the arm is released from contact with a wall in a parking area by the head feed operation, and when the arm is pushed against the wall in the parking area when as the unload operation is completed) are not recited in the rejected claims. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Therefore it is considered that the reference discloses the limitations of the current application as claimed.

Furthermore, Examiner disagrees with Applicant's argument on pages 8-10 of the response filed on November 22, 2004 that Uchiike et al U.S. Patent No. 6,236,527 fail to show a gradual change in the voice coil motor current when the arm is released from contact with a wall in a parking area by the head feed (i.e. load) operation, and when the arm is pushed against the wall in the parking area as the unload operation is completed. Uchiike et al shows a driving

completed (column 6, lines 18-20).

current undergoing a gradual change during a loading operation represented by element C1 in Figure 4(a) which occurs while the arm is released from contact from the wall ("inclined surface 6d of the ramp") (column 6, lines 10-14) and a driving current undergoing a gradual change during an unloading operation represented by element C2 in Figure 4(b) which occurs while the arm is pushed against the wall (6d) (column 6, lines 21-24). Therefore it is considered that the device disclosed by Uchiike et al controls a driving current so as to undergo a gradual change during at least one of a load operation (C1) for a head feed operation which feeds the head towards the disk (column 6, lines 10-14), and an unload operation (C2) as the unload operation is

Regarding claims 2, 5, 7-10, 12, 15, and 17-21 remain rejected under 35 U.S.C. 102(e) and 35 U.S.C. 103(a) for the same reasons discussed in the previous Office action since claims depend from independent claims 1 and 11.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniell L. Negrón whose telephone number is 703-305-6985. The examiner can normally be reached on Monday-Friday (8:30-6:00) Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R. Hudspeth can be reached on 703-308-4825. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

January 31, 2005

DAVID HUDSPETH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600